100 People

This problem gives you the chance to:
- Calculate using real data and proportion

There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
- there would be 20 children
- 25 people would not have food and shelter
- 17 people would speak only Chinese
- 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.
   \[
   \frac{25}{100} = \frac{1}{4}
   \]
   How many people in the world do not have food and shelter?
   Show your calculation.
   \[
   \frac{1}{4} \times 7,000,000,000 = 1,750,000,000
   \]

2. How many more people in the world speak Chinese than speak English?
   Show your working.
   \[
   70,000,000 \times 100 = 7,000,000,000
   
   9 \times 70,000,000 = 630,000,000
   \]

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.
   
   \[
   \frac{300,000,000}{7,000,000,000} = 0.04285714285714285714285714285714285714286
   \]
   If you simplify that you get about \( \frac{3}{70} \).
   
   Then you divide 100 by 70 and get 1.4285714285714285714285714285714285714286.
   
   \( 1.4285714285714285714285714285714285714286 \) rounded off to 4.
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There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
• there would be 20 children
• 25 people would not have food and shelter
• 17 people would speak only Chinese
• 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
Show your calculation.
\[
\frac{23}{100} = \frac{1}{4}
\]

How many people in the world do not have food and shelter?
Show your calculation.
\[
17\,500\,000 \times \frac{1}{4} = 4,375\,000
\]

2. How many more people in the world speak Chinese than speak English?
Show your working.
\[
700\,000\,000 - 56\,000\,000 = 644\,000\,000
\]

3. Approximately three hundred million (300,000,000) people live in the USA.
In the world of 100 people, how many people would live in the USA?
Explain how you know.
\[
300\,000\,000 \div 700\,000\,000 = 0.42857 \times 100 = \frac{4}{4}
\]
There are approximately seven billion \((7,000,000,000)\) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world

- there would be 20 children
- 25 people would not have food and shelter
- 17 people would speak only Chinese
- 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.

   \[
   \frac{100}{25} = \frac{1}{4}
   \]

   How many people in the world do not have food and shelter?
   Show your calculation.

   \[
   \frac{7,000,000,000}{4} = 1,750,000,000
   \]

2. How many more people in the world speak Chinese than speak English?
   Show your working.

   \[
   17 - 8 = 9
   \]

   \[
   \frac{700,000,000}{9} = 77,777,777
   \]

3. Approximately three hundred million \((300,000,000)\) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.

   \[
   \frac{300,000,000}{100} = 3,000,000
   \]
100 People

This problem gives you the chance to:
\* Calculate using real data and proportion

There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
\* there would be 20 children
\* 25 people would not have food and shelter
\* 17 people would speak only Chinese
\* 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.

   How many people in the world do not have food and shelter?
   Show your calculation.

   \(175,000,000\)

2. How many more people in the world speak Chinese than speak English?
   Show your working.

   \[
   \frac{140,000,000}{17} \times \frac{900,000,000}{0.08} \approx 636,000,000
   \]

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.

   \[
   70,000,000 \div 300,000,000 = 2.3
   \]
There are approximately seven billion \( (7,000,000,000) \) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
- there would be 20 children
- 25 people would not have food and shelter
- 17 people would speak only Chinese
- 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
Show your calculation.

How many people in the world do not have food and shelter?
Show your calculation.

\[
\frac{7000000000}{100} \times 75 =
\]

\[
700
\]

\[
1750000000
\]

2. How many more people in the world speak Chinese than speak English?
Show your working.

\[
1190000000 - 630000000
\]

3. Approximately three hundred million \( (300,000,000) \) people live in the USA.
In the world of 100 people, how many people would live in the USA?
Explain how you know.

\[
\text{1 divided } 300,000,000,000 \text{ by 100.}
\]
100 People

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• Calculate using real data and proportion

There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
• there would be 20 children
• 25 people would not have food and shelter
• 17 people would speak only Chinese
• 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.

   \[
   \frac{25}{100} = \frac{1}{4}
   \]

   1,750,000,000

   How many people in the world do not have food and shelter?
   Show your calculation.

   \[
   \frac{4}{7,000,000,000}
   \]

   63,060,000

2. How many more people in the world speak Chinese than speak English?
   Show your working.

   \[
   \frac{17}{100} = .17
   \frac{8}{100} = .08
   .17 \times 7,000,000,000 = 1,190,000,000
   .08 \times 7,000,000,000 = 560,000,000
   \]

   630,000,000

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many would live in the USA?
   Explain how you know.

   \[
   \frac{300,000,000}{7,000,000,000} = \approx 0.043
   \]

   If you multiply that by 100 you get 4.
100 People

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There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
- there would be 20 children
- 25 people would not have food and shelter
- 17 people would speak only Chinese
- 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.
   \[
   \frac{1}{100} \times = \frac{1}{25} \times = \frac{1.75}{7} \times = 0.25\text{billion}
   \]
   How many people in the world do not have food and shelter?
   Show your calculation.
   \[\frac{1.75}{7} = 0.25\text{billion}\]

2. How many more people in the world speak Chinese than speak English?
   Show your working.
   \[
   \frac{17}{100} = \frac{x}{100} \times = \frac{17}{100} \times = \frac{1.19}{0.63} \times = 0.63\text{billion}
   \]

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.
   \[
   \frac{3}{7} = \frac{x}{100} \times = 4.3
   \]
   \[\frac{30}{2} = \frac{2}{2}\]
100 People

This problem gives you the chance to:
- Calculate using real data and proportion

There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
- there would be 20 children
- 25 people would not have food and shelter
- 17 people would speak only Chinese
- 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.
   \[
   \frac{7,000,000,000}{4}
   \]
   \[2,250,000,000\]

2. How many more people in the world speak Chinese than speak English?
   Show your working.
   \[
   \text{English: } \frac{560\text{mill}}{12\text{billion}} \quad \text{Chinese: } \frac{1,400,000,000}{1,400,000,000}
   \]
   \[1,140,000,000\]

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.
   Because If you speak English you could be from U.S.A.
There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
- there would be 20 children
- 25 people would not have food and shelter
- 17 people would speak only Chinese
- 8 would speak only English

1. What fraction of people in the world do not have food and shelter? Show your calculation.
   \[ \frac{25}{100} = \frac{1}{4} \]
   How many people in the world do not have food and shelter? Show your calculation.
   \[ \frac{1}{4} \times 7,000,000,000 = 1,750,000,000 \]

2. How many more people in the world speak Chinese than speak English? Show your working.
   \[ \frac{17}{100} \quad \frac{8}{100} \]
   \[ \frac{7,000,000,000}{100} = \frac{70,000,000,000}{1} \]
   \[ \frac{70,000,000,000 \times 8}{17} = \frac{560,000,000}{17} \]
   \[ 1,190,000,000 \]
   \[ 560,000,000 \]
   \[ 630,000,000 \]

3. Approximately three hundred million (300,000,000) people live in the USA. In the world of 100 people, how many people would live in the USA? Explain how you know.
   \[ 300,000,000 \div 100 = 3,000,000 \]
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There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
• there would be 20 children
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• 17 people would speak only Chinese
• 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.
   \[
   \frac{1}{4}
   \]
   How many people in the world do not have food and shelter?
   Show your calculation.
   \[
   \frac{7,000,000,000}{4} = 1,750,000,000
   \]

2. How many more people in the world speak Chinese than speak English?
   Show your working.
   \[
   \frac{411,764,705.9}{875,000,000} = 0.47
   \]
   \[
   324264705.9
   \]

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.
   \[
   \frac{700,000,000}{300,000,000} = 2 \frac{1}{3} = 23
   \]
100 People

This problem gives you the chance to:
• Calculate using real data and proportion

There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
  • there would be 20 children
  • 25 people would not have food and shelter
  • 17 people would speak only Chinese
  • 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
   Show your calculation.

   \[
   \frac{25}{100} \times 100 = 25
   \]

   How many people in the world do not have food and shelter?
   Show your calculation.

   \[
   \frac{7,000,000,000}{100} \times 25
   \]

2. How many more people in the world speak Chinese than speak English?
   Show your working.

   \[
   17 - 8 = 9 \times \frac{100}{100} = 9
   \]

3. Approximately three hundred million (300,000,000) people live in the USA.
   In the world of 100 people, how many people would live in the USA?
   Explain how you know.

   Because I tore off all the zeros on three hundred million and got three then all but 1 zero on seven billion and got seventy then divided seventy by three and multiplied the answer by 100 and got 4.
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There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
• there would be 20 children
• 25 people would not have food and shelter
• 17 people would speak only Chinese
• 8 would speak only English

\[
\frac{25}{100} = \frac{1}{4}
\]

1. What fraction of people in the world do not have food and shelter?
Show your calculation.

\[
25 \div 700,000,000 = \frac{1}{28}
\]

How many people in the world do not have food and shelter?
Show your calculation.

\[
17 \times 70,000,000 = 1,190,000,000
\]

2. How many more people in the world speak Chinese than speak English?
Show your working.

\[
17 \times 70,000,000 = 1,190,000,000
\]
\[
8 \times 70,000,000 = 560,000,000
\]
\[
\frac{1,190,000,000 - 560,000,000}{1,190,000,000} = 0.67
\]

3. Approximately three hundred million (300,000,000) people live in the USA.
In the world of 100 people, how many people would live in the USA?
Explain how you know.

I know because \[
300,000,000 \div 7,000,000,000 \approx 0.04
\] people. Then I multiplied by 100.
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There are approximately seven billion (7,000,000,000) people in the world.

In the 1990s researchers calculated that if there were just 100 people in the world
• there would be 20 children
• 25 people would not have food and shelter
• 17 people would speak only Chinese
• 8 would speak only English

1. What fraction of people in the world do not have food and shelter?
Show your calculation.

\[
\frac{25}{100}, \text{ or } \frac{1}{4}
\]

How many people in the world do not have food and shelter?
Show your calculation.

\[
\frac{1}{4} \times 7,000,000,000
\]

2. How many more people in the world speak Chinese than speak English?
Show your working.

\[
\frac{7}{8} \text{ for } \frac{2}{3}
\]

3. Approximately three hundred million (300,000,000) people live in the USA.
In the world of 100 people, how many people would live in the USA?
Explain how you know.

These are like 7 continents so you
would divide 100 by 7.
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   Show your calculation.

   How many people in the world do not have food and shelter?
   Show your calculation.

2. How many more people in the world speak Chinese than speak English?
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3. Approximately three hundred million (300,000,000) people live in the USA.
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• 17 people would speak only Chinese
• 8 would speak only English

1. What fraction of people in the world do not have food and shelter?

Show your calculation.

\[
\frac{25}{100} = \frac{1}{4}
\]

\[
\frac{25 \times 70,000,000}{100} = \frac{1,750,000,000}{7,000,000,000}
\]

How many people in the world do not have food and shelter?
Show your calculation.

\[
\frac{1,750,000,000}{7,000,000,000} = 0.25
\]

1.75 billion

2. How many more people in the world speak Chinese than speak English?

Show your working.

\[
\frac{17}{8} = 2.125
\]

\[
1\% = 70,000,000
\]

\[
9\% = 630,000,000
\]

3. Approximately three hundred million (300,000,000) people live in the USA.
In the world of 100 people, how many people would live in the USA?
Explain how you know.

If there were 100 people, 30 would live in the U.S. \( \frac{30}{43} \)

I think it would mean 4 people live in the U.S. and 1 person has a summer home in the U.S.